

Fig 1

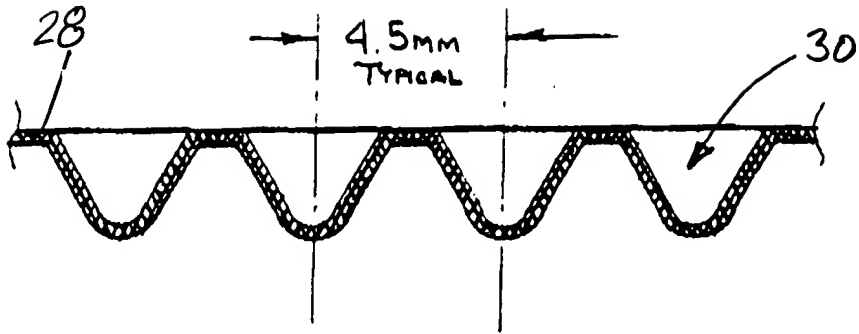


FIG 2

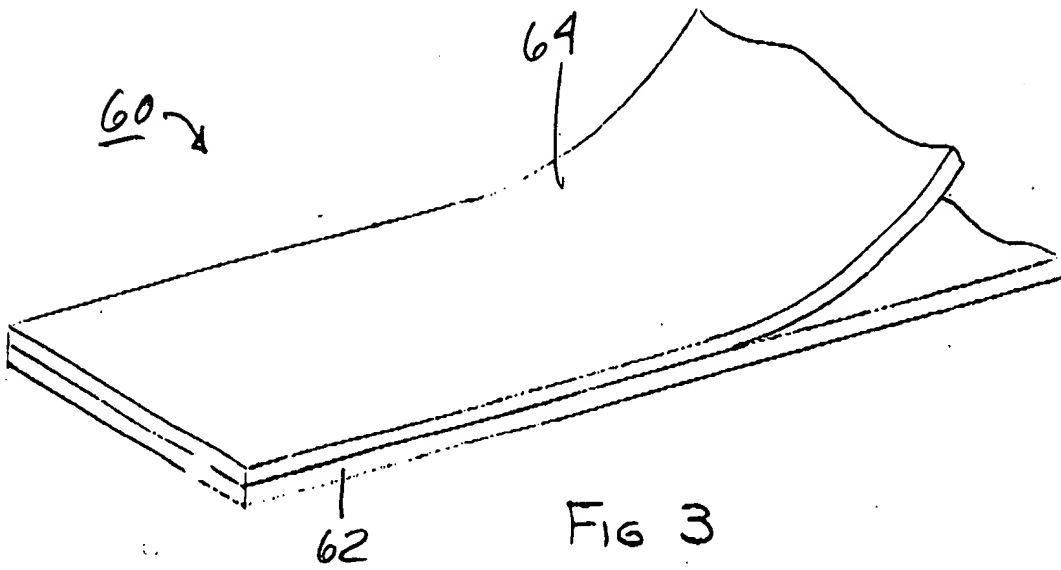
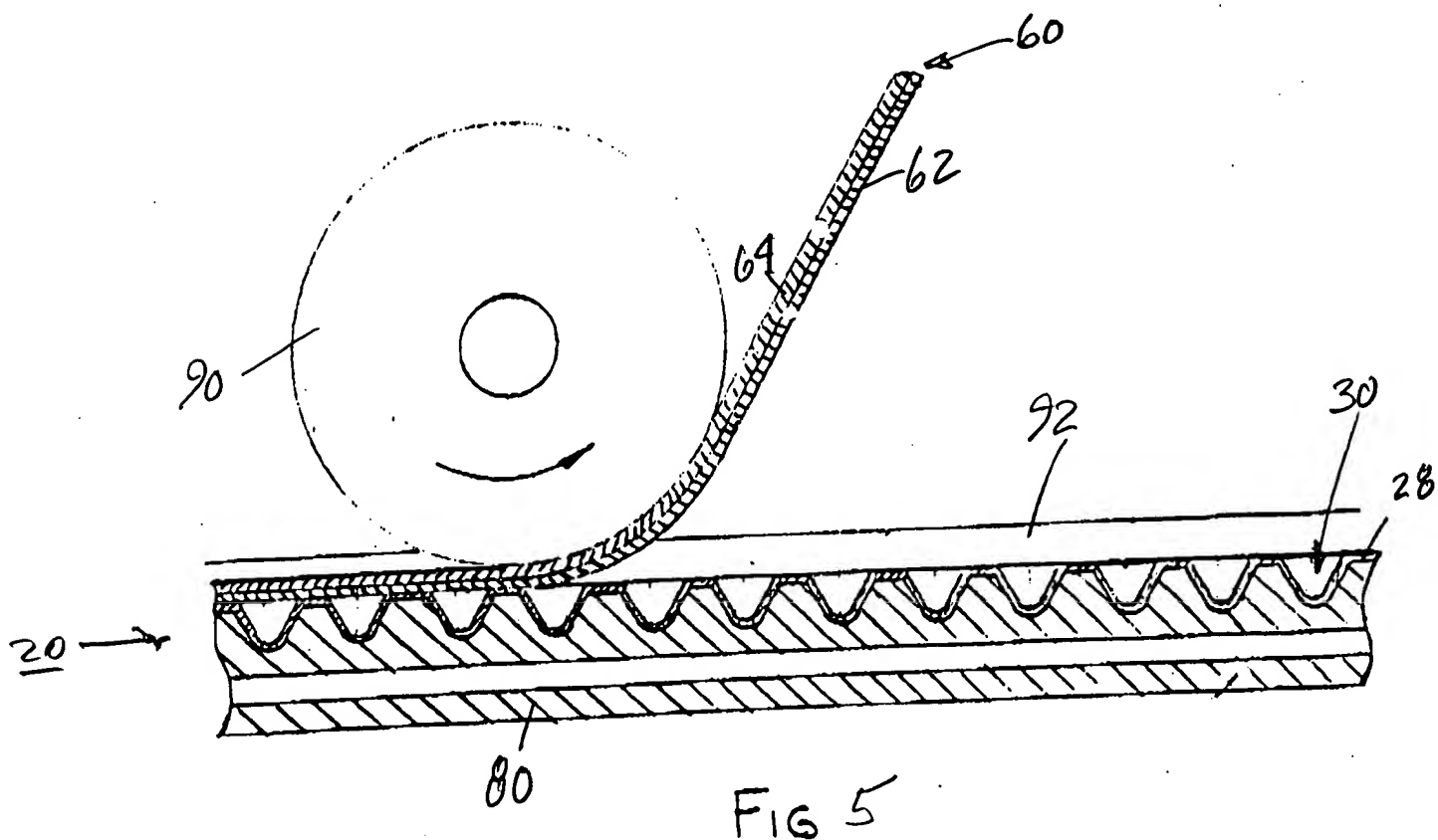
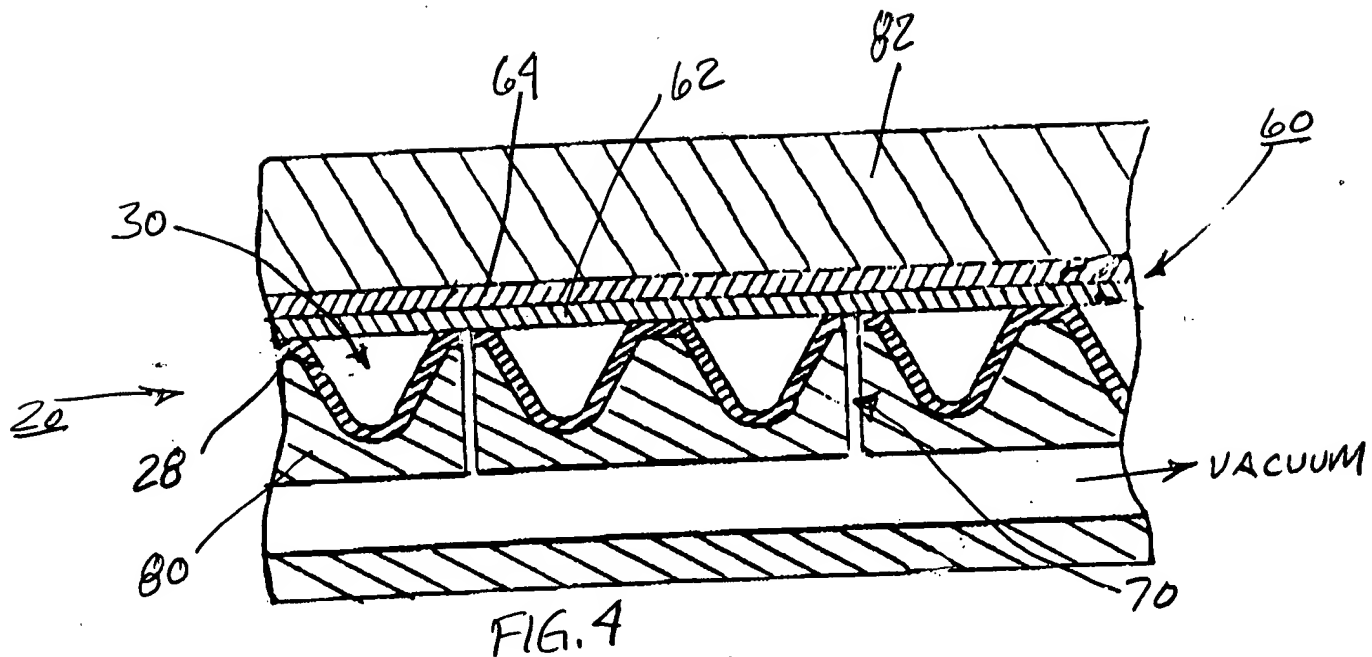


FIG 3



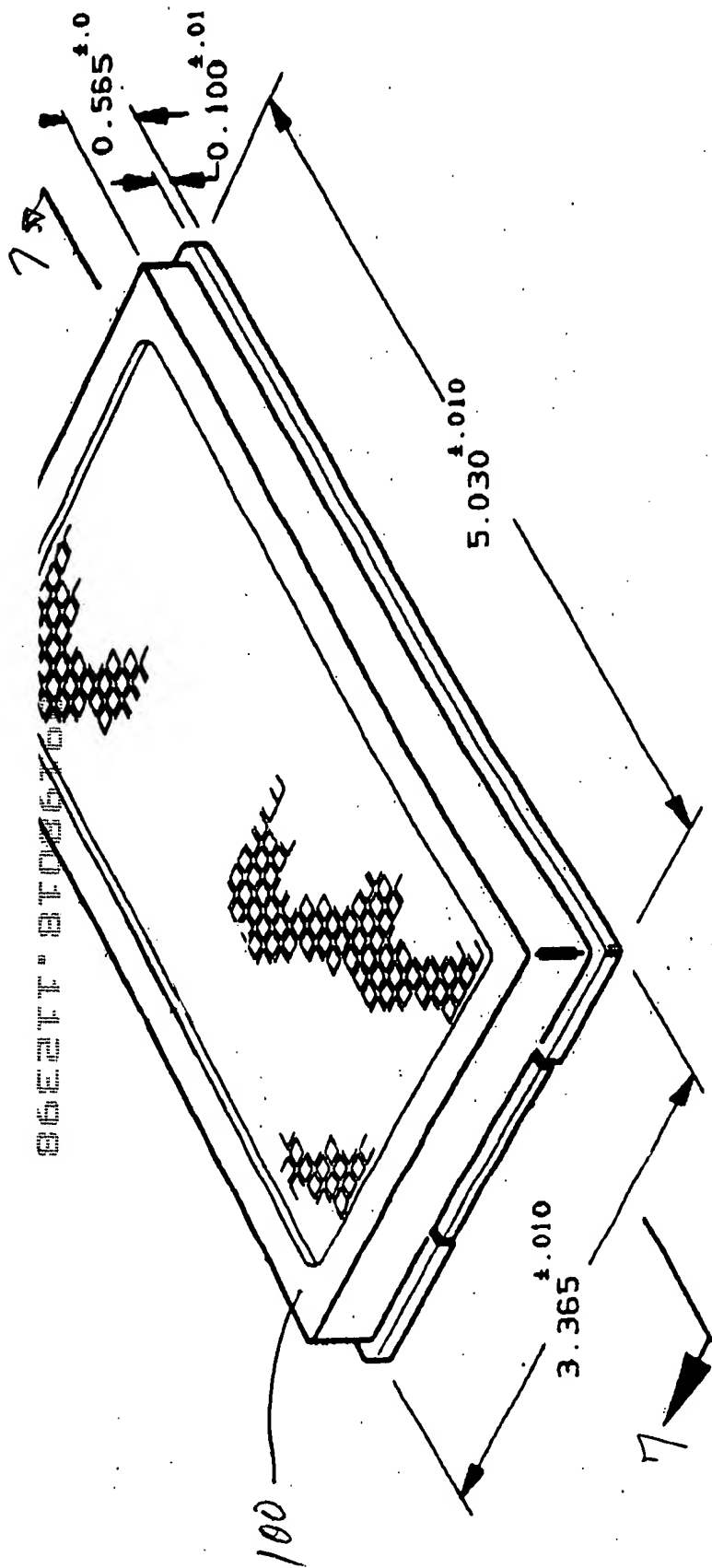


FIG 6

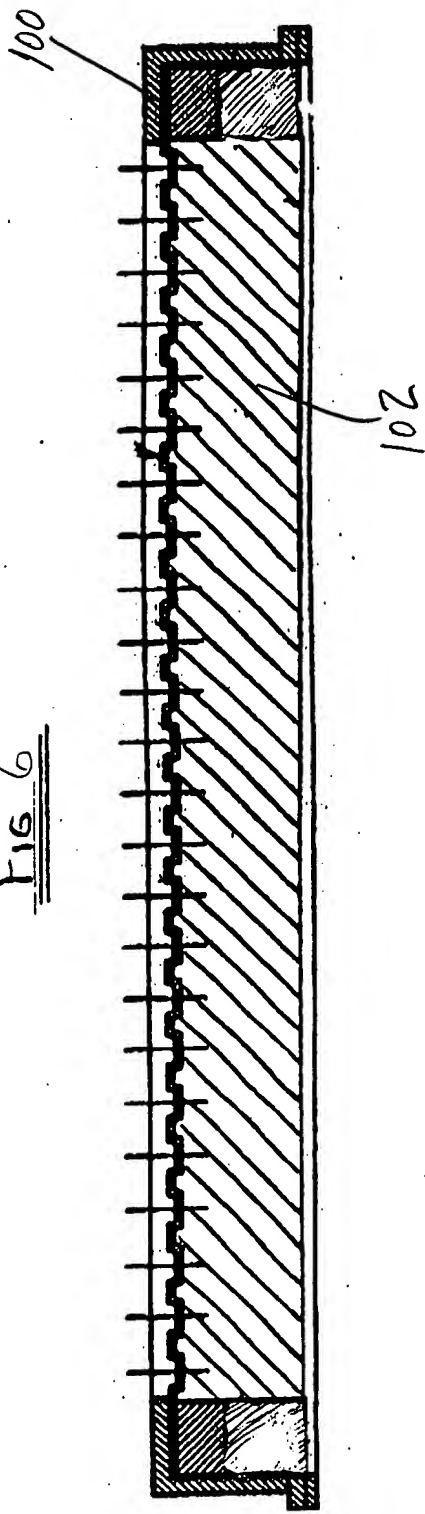


FIG. 7

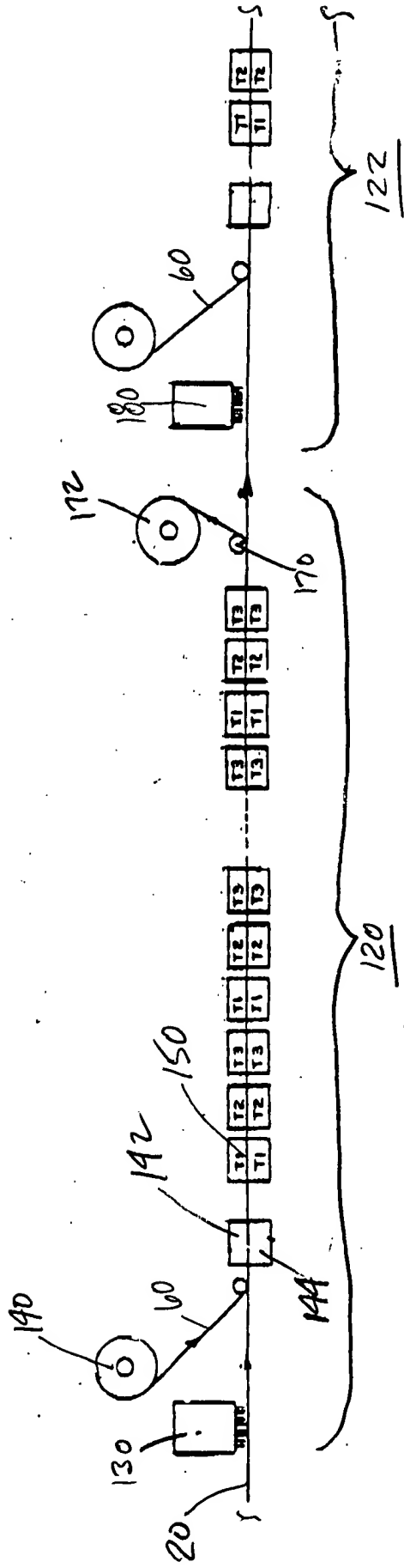


Fig 8

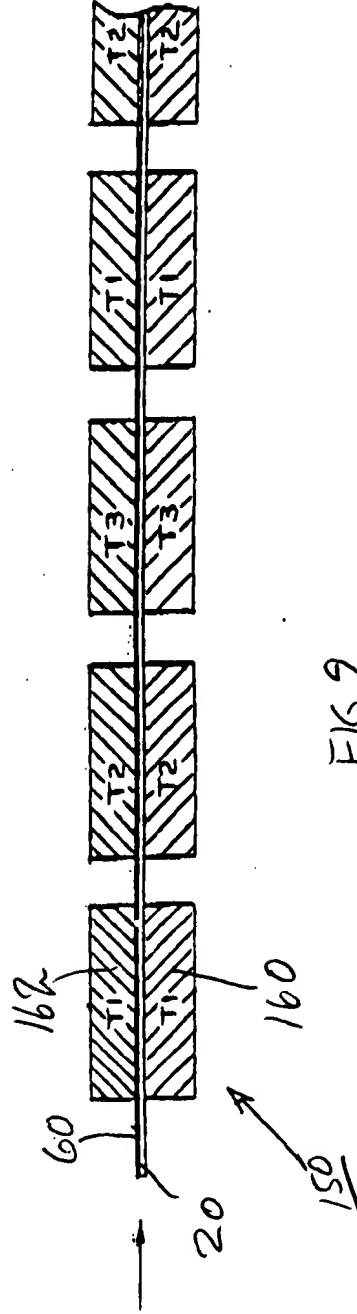


Fig 9

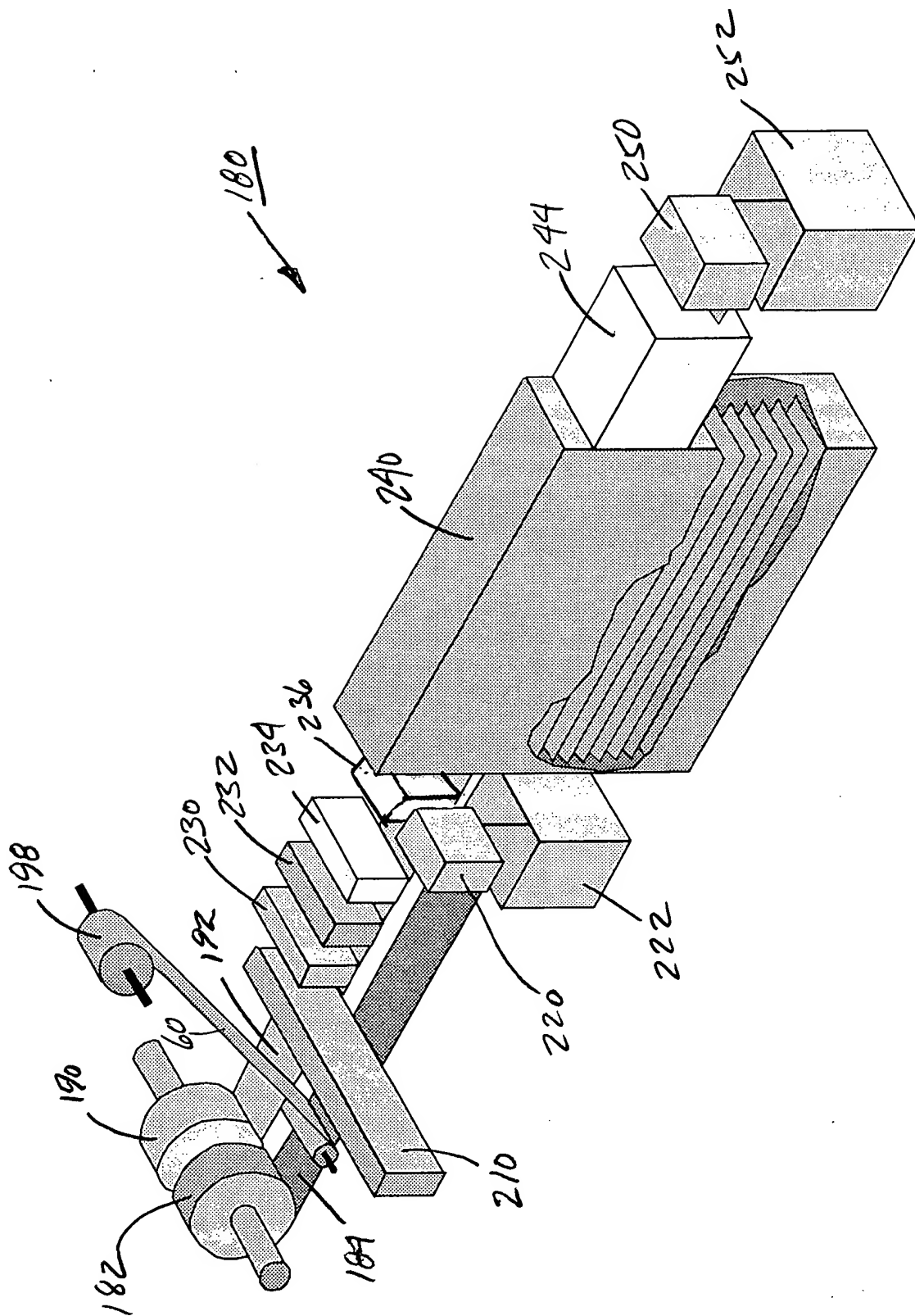


FIG. 10

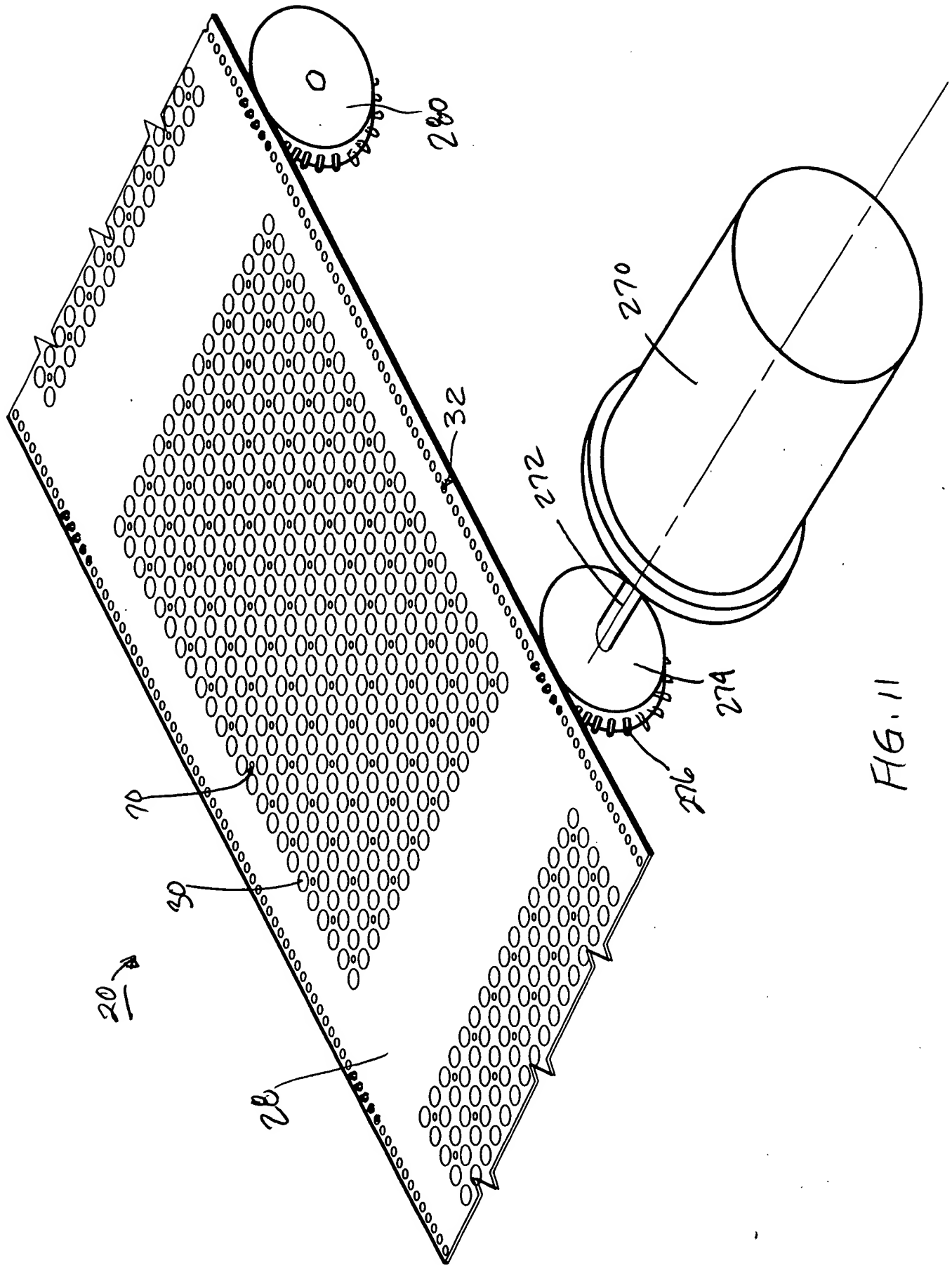


FIG. 11

300

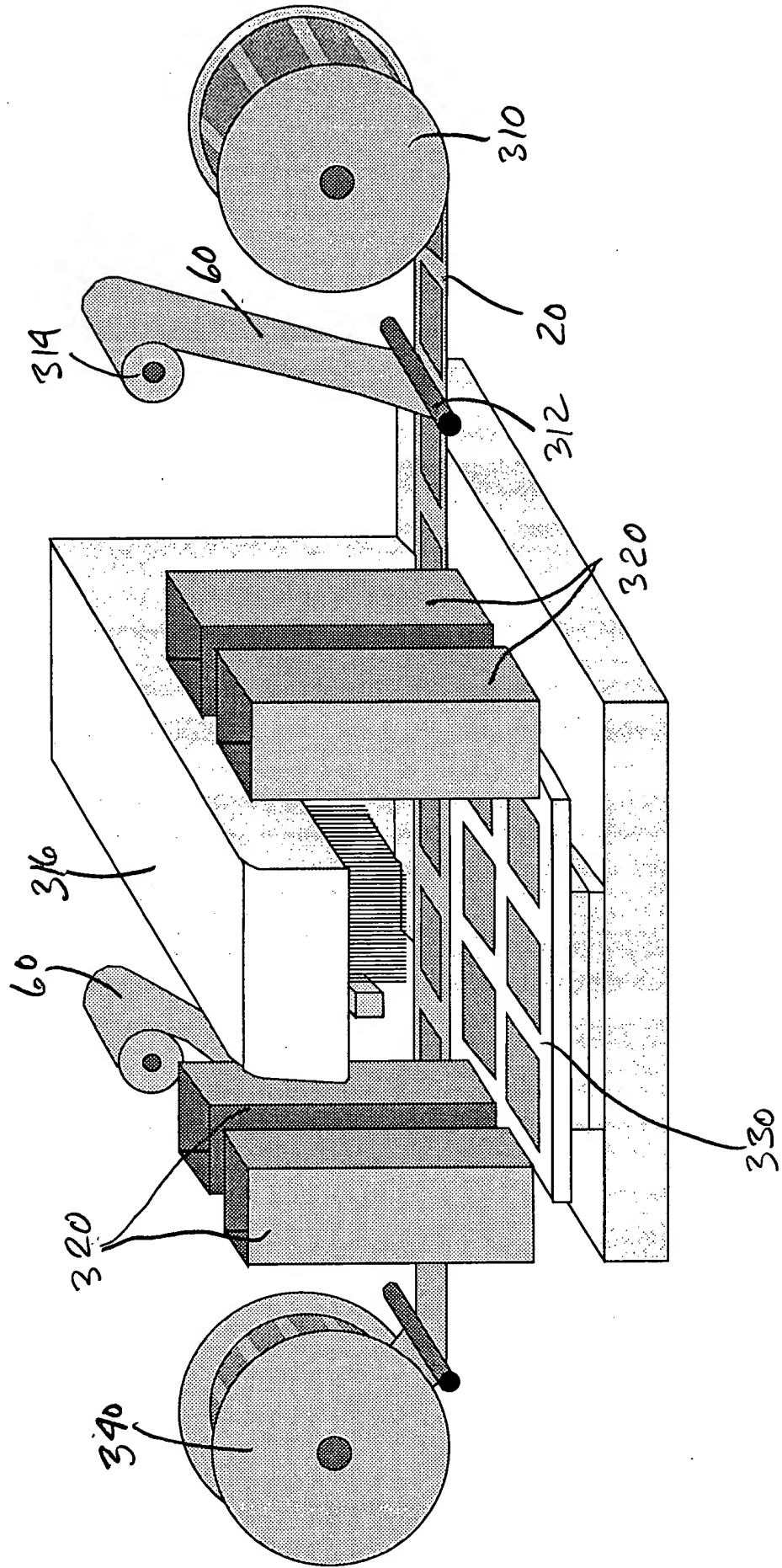


FIG. 12



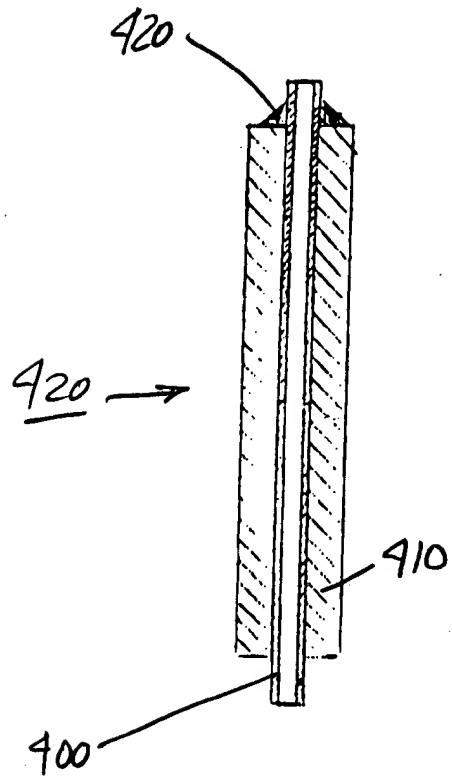


FIG 13

The diagram illustrates a fast acting solenoid valve assembly. A rectangular block labeled "FAST ACTING SOLENOID VALVE" (490) is connected to a manifold (452) via a pipe (440). The manifold (452) is a circular component with three output ports. One port is connected to a "RINSE LIQUID" reservoir (464) through a line (468). Another port is connected to an "AIR PRESSURE" source (460) through a line (466). The third port is connected to a "VACUUM" source (462) through a line (462). The rinse liquid line (468) includes a check valve (466). The assembly is shown in cross-section, revealing internal components: a piston (432) within a cylinder (436), a seal (434), and a valve seat (42). The valve seat (42) is connected to a vertical tube (410) which leads to a nozzle (400) at the bottom. The nozzle (400) is positioned above a workpiece (470) held by a fixture (480). A label (482) points to the nozzle area. A label (420) points to the vertical tube (410). A label (430) points to the seal (434).

FIG. 14

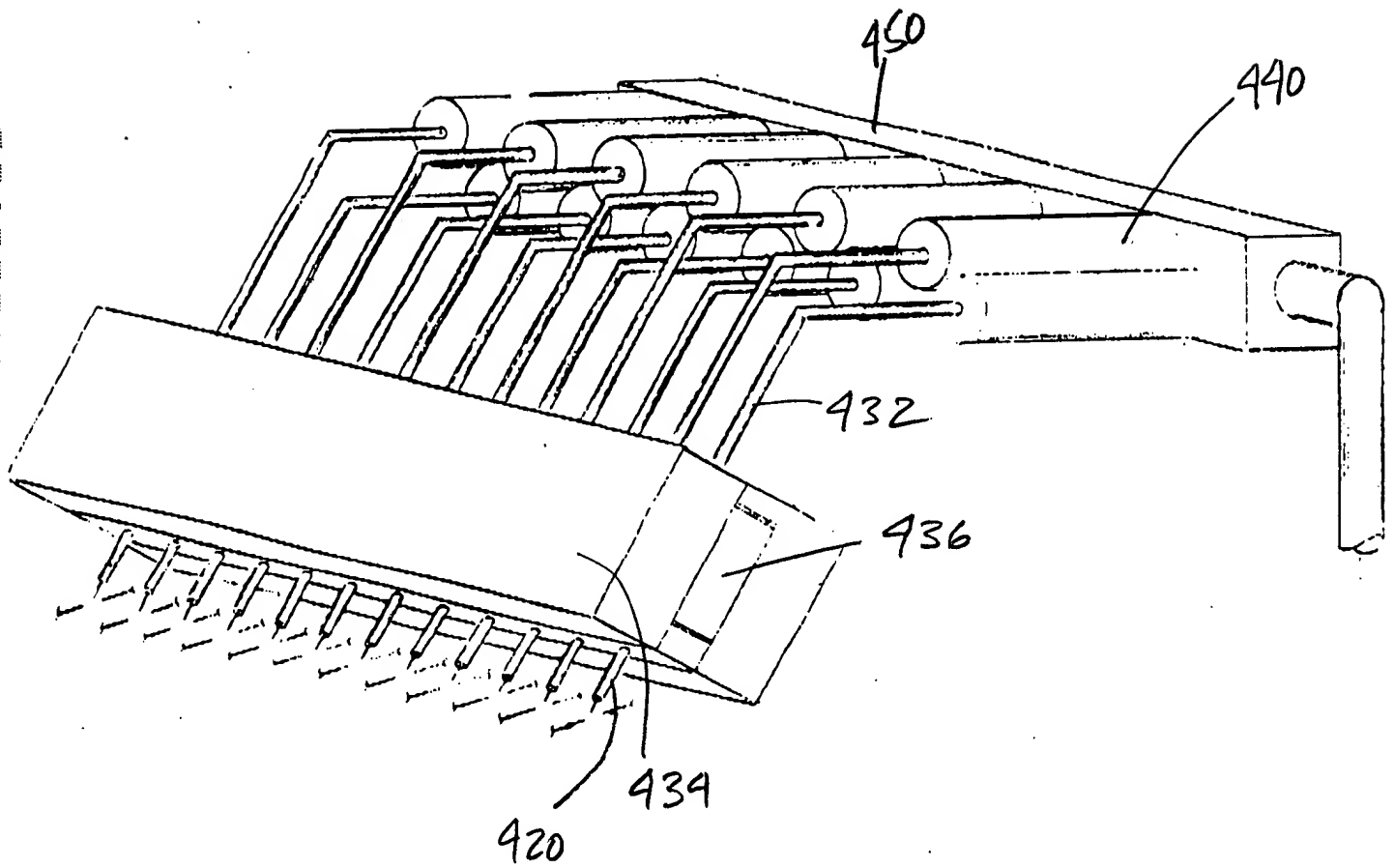


FIG. 15